

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030215\
 Data File : BF077528.D
 Acq On : 2 Mar 2015 17:59
 Operator : TP/IZ
 Sample : G1399-01 5X
 Misc : S
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB9

Manual Integrations
 APPROVED

apatel
 3/3/2015 6:26:33 PM

Quant Time: Mar 03 05:51:31 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 02 23:46:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.26	152	107012	20.00	ng	0.00
21) Naphthalene-d8	8.84	136	426201	20.00	ng	0.00
38) Acenaphthene-d10	11.01	164	211719	20.00	ng	0.00
63) Phenanthrene-d10	12.86	188	408971	20.00	ng	0.00
75) Chrysene-d12	16.18	240	347394	20.00	ng	0.04
86) Perylene-d12	17.94	264	454176	20.00	ng	0.11
System Monitoring Compounds						
5) 2-Fluorophenol	5.55	112	120203	18.75	ng	0.00
7) Phenol-d6	6.82	99	152169	18.46	ng	0.00
23) Nitrobenzene-d5	7.95	82	86711	12.65	ng	0.00
41) 2,4,6-Tribromophenol	11.99	330	36152	17.73	ng	0.00
44) 2-Fluorobiphenyl	10.18	172	176416	12.99	ng	0.00
78) Terphenyl-d14	14.85	244	187149	12.59	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.86	128	173118	8.12	ng	98
37) 2-Methylnaphthalene	9.72	142	78293	5.17	ng	99
51) Acenaphthene	11.05	154	474211	39.90	ng	100
54) Dibenzofuran	11.26	168	329005	17.93	ng	98
57) Fluorene	11.69	166	520090	35.45	ng	100
70) Phenanthrene	12.89	178	4142021	174.74	ng	95
71) Anthracene	12.95	178	1640472	69.74	ng	98
72) Carbazole	13.15	167	977414	43.70	ng	98
74) Fluoranthene	14.38	202	8260595	319.03	ng	91
77) Pyrene	14.67	202	7823738	368.17	ng	# 75
80) Benzo(a)anthracene	16.17	228	6443085	316.46	ng	# 87
82) Chrysene	16.21	228	4496362	235.19	ng	# 84
85) Indeno(1,2,3-cd)pyrene	19.43	276	2726568m	125.08	ng	
87) Benzo(b)fluoranthene	17.49	252	6445120m	244.03	ng	
88) Benzo(k)fluoranthene	17.53	252	1695196m	65.50	ng	
89) Benzo(a)pyrene	17.88	252	4577342m	181.98	ng	
90) Dibenzo(a,h)anthracene	19.43	278	874489	36.45	ng	# 76
91) Benzo(g,h,i)perylene	19.87	276	2604600m	107.57	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

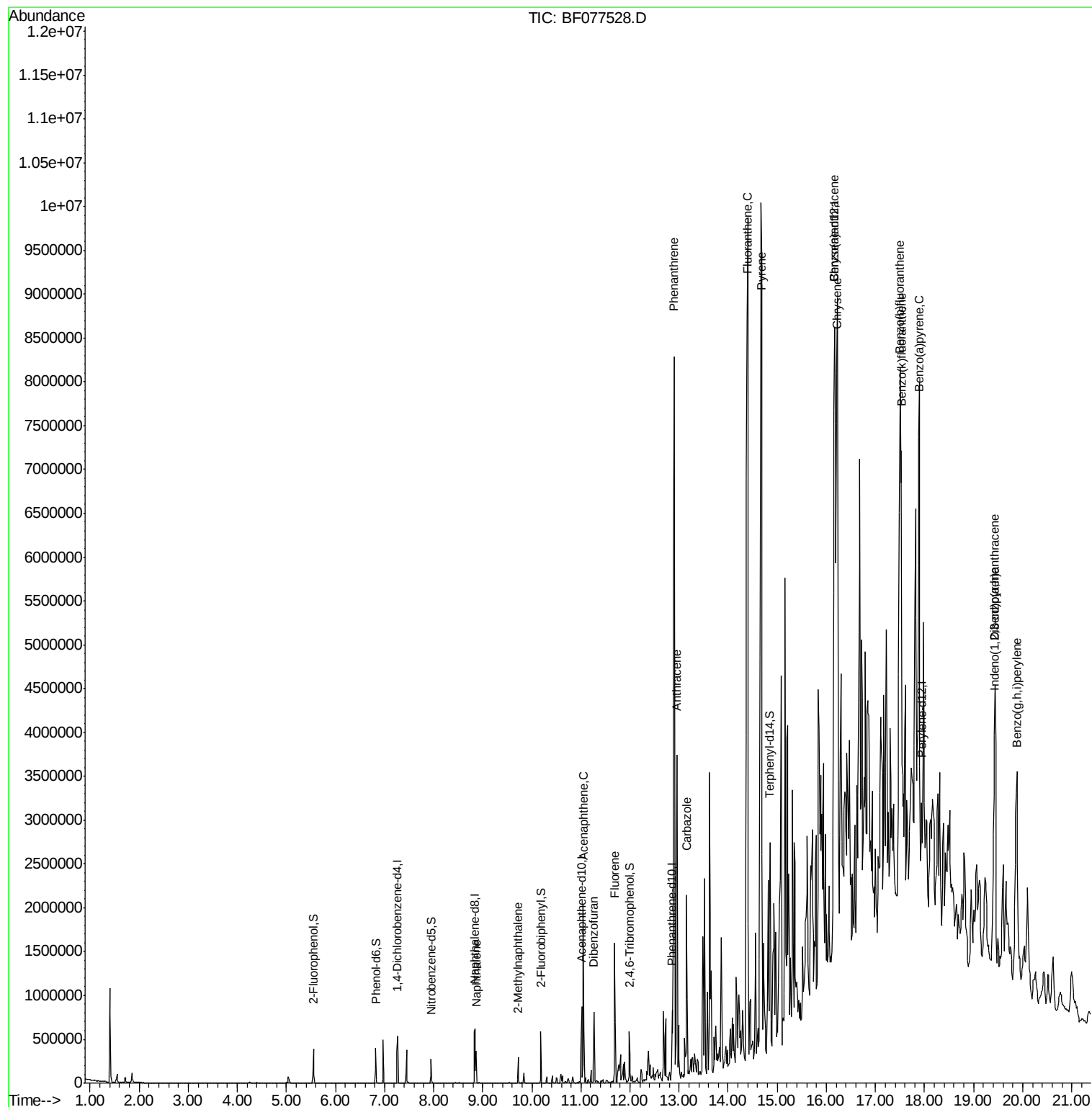
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030215\
Data File : BF077528.D
Acq On : 2 Mar 2015 17:59
Operator : TP/IZ
Sample : G1399-01 5X
Misc : S
ALS Vial : 9 Sample Multiplier: 1

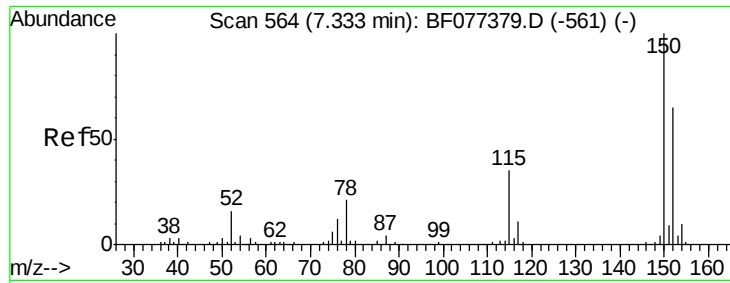
Instrument :
BNA_F
ClientSampleId :
SB9

Manual Integrations
APPROVED

apatel
3/3/2015 6:26:33 PM

Quant Time: Mar 03 05:51:31 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 02 23:46:07 2015
Response via : Initial Calibration





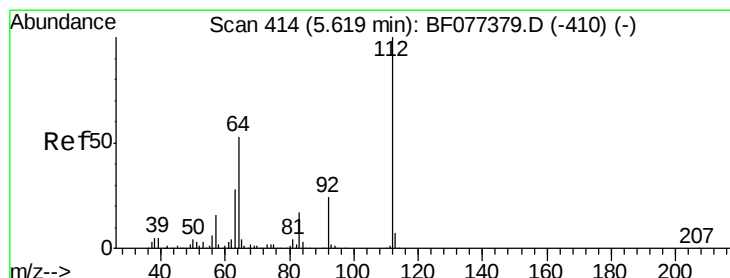
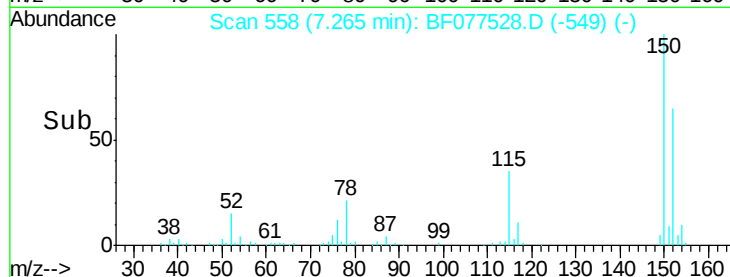
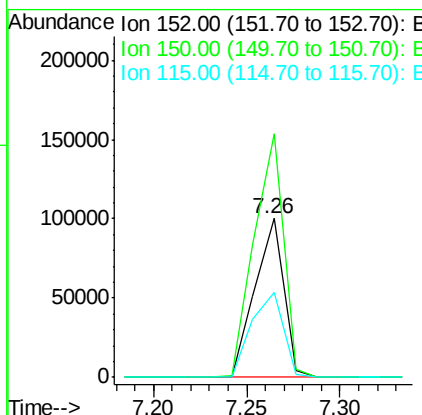
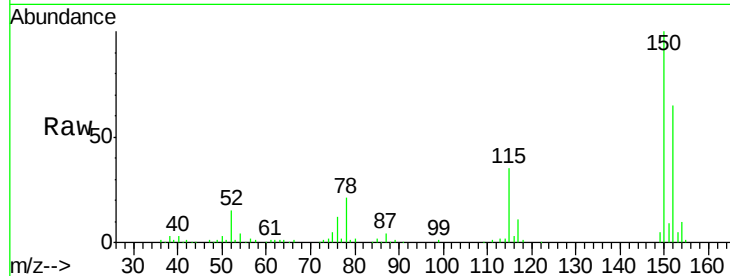
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.26 min Scan# 558
 Delta R.T. 0.00 min
 Lab File: BF077528.D
 Acq: 2 Mar 2015 17:59

Instrument :
 BNA_F
 ClientSampleId :
 SB9

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	53.3	49.4	74.2

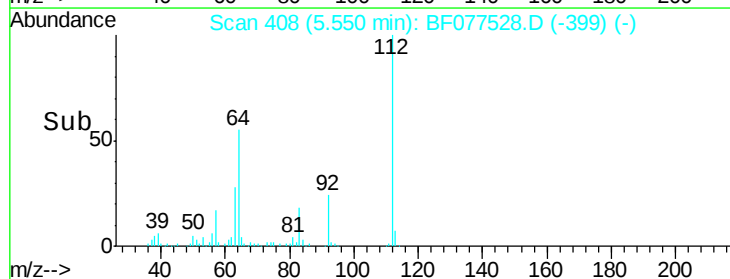
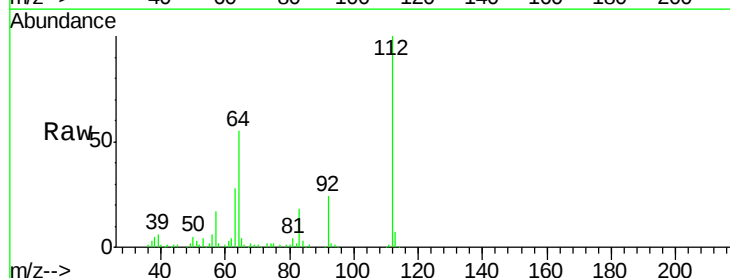
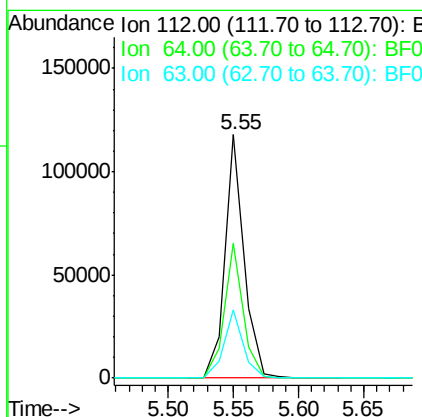
Manual Integrations
 APPROVED

apatel
 3/3/2015 6:26:33 PM



#5
 2-Fluorophenol
 Concen: 18.75 ng
 RT: 5.55 min Scan# 408
 Delta R.T. 0.01 min
 Lab File: BF077528.D
 Acq: 2 Mar 2015 17:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	48.5	72.7
63	28.1	25.0	37.4





#7

Phenol-d6

Concen: 18.46 ng

RT: 6.82 min Scan# 519

Delta R.T. 0.00 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

Instrument :

BNA_F

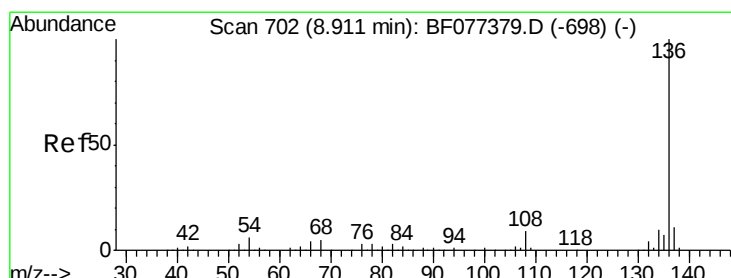
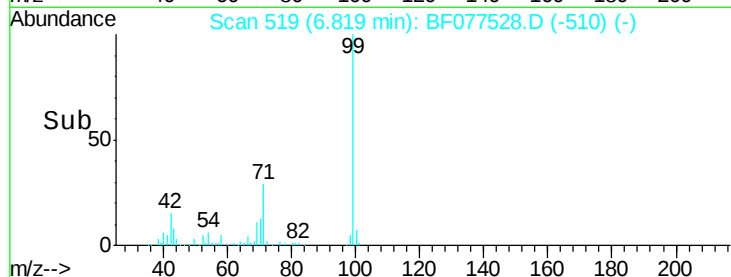
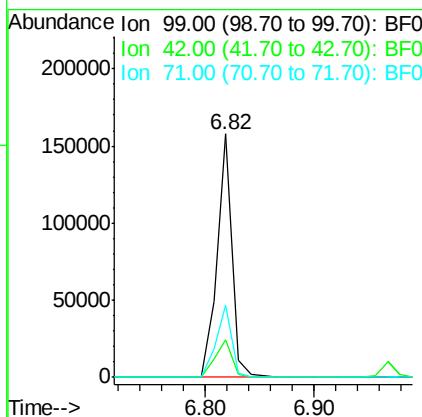
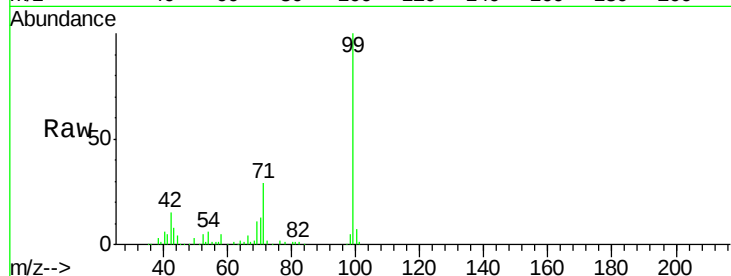
ClientSampleId :

SB9

Tgt Ion:	99	Resp:	152169
Ion Ratio	Lower	Upper	
99	100		
42	15.4	16.2	24.4#
71	29.5	26.7	40.1

Manual Integrations
APPROVED

apatel
3/3/2015 6:26:33 PM



#21

Naphthalene-d8

Concen: 20.00 ng

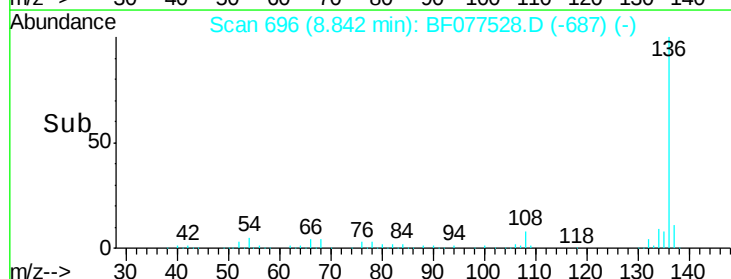
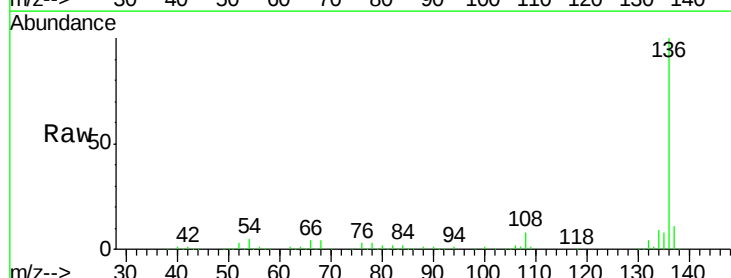
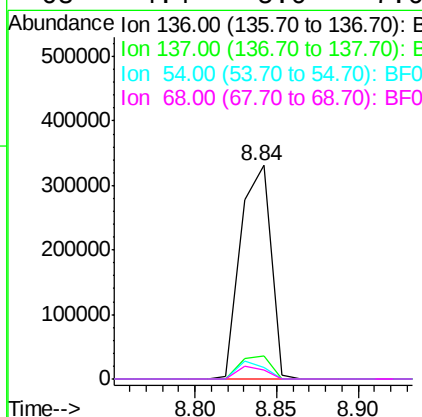
RT: 8.84 min Scan# 696

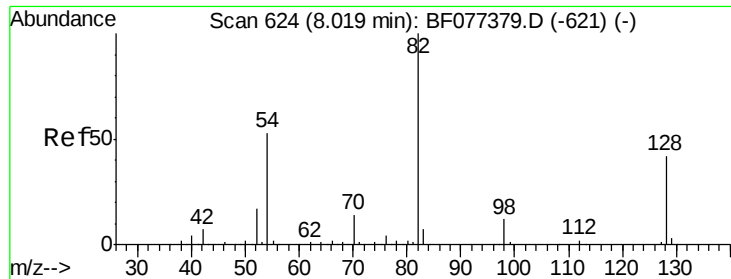
Delta R.T. 0.00 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

Tgt Ion:	136	Resp:	426201
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.6	13.0
54	5.2	6.2	9.4#
68	4.4	5.0	7.6#





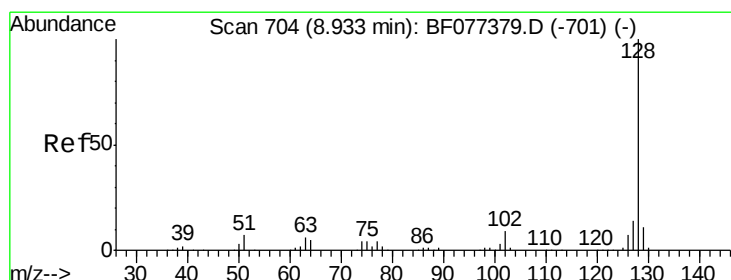
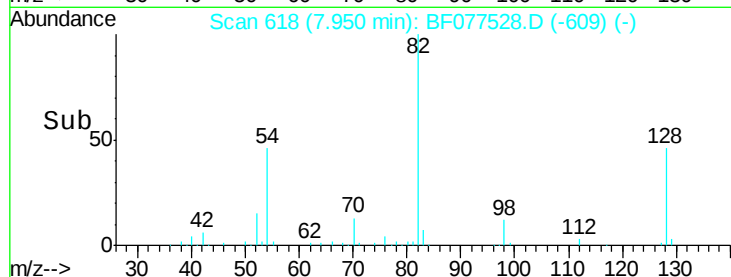
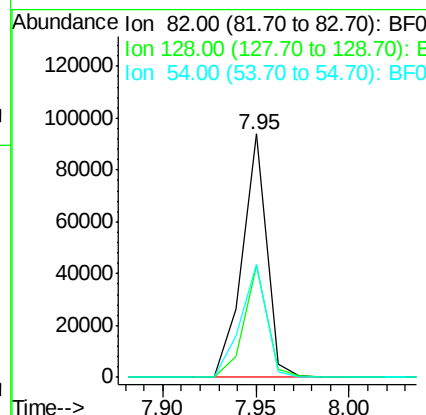
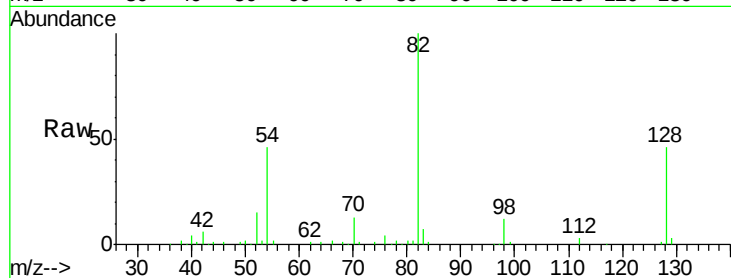
#23
Nitrobenzene-d5
Concen: 12.65 ng
RT: 7.95 min Scan# 618
Delta R.T. -0.00 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Instrument :
BNA_F
ClientSampleId :
SB9

Tgt Ion	Ratio	Lower	Upper
82	100		
128	45.8	43.8	65.8
54	46.2	36.7	55.1

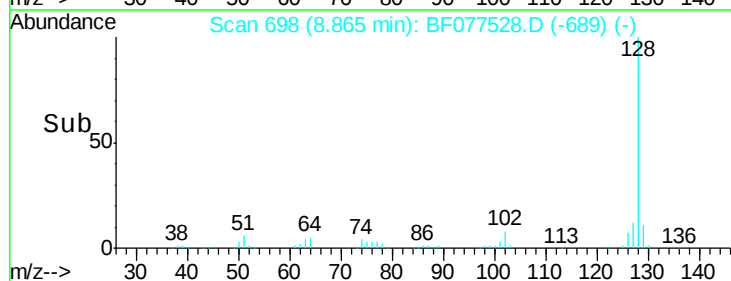
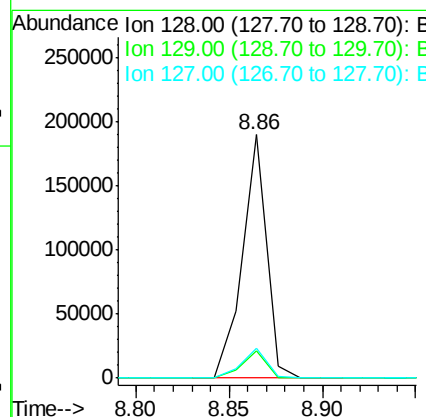
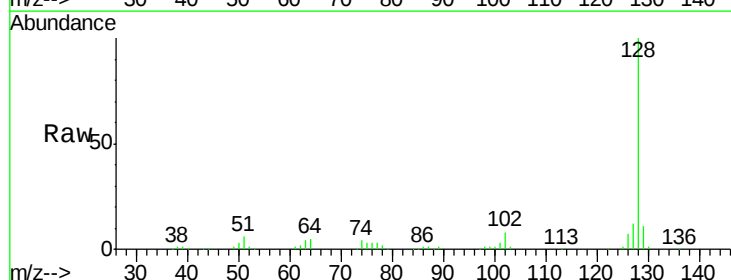
Manual Integrations
APPROVED

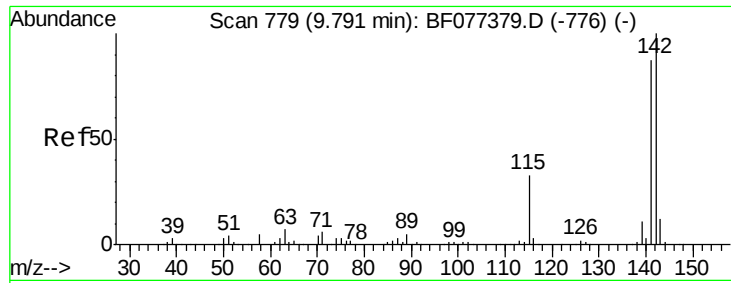
apatel
3/3/2015 6:26:33 PM



#31
Naphthalene
Concen: 8.12 ng
RT: 8.86 min Scan# 698
Delta R.T. 0.00 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.4	14.0
127	12.3	10.6	15.8





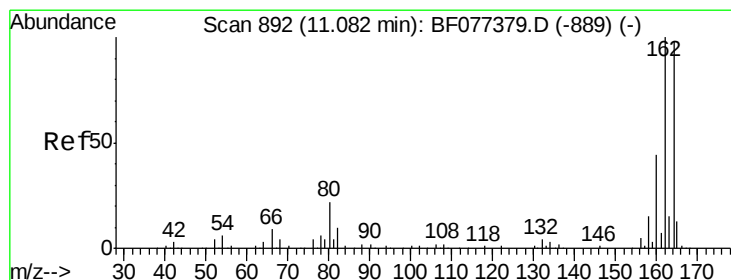
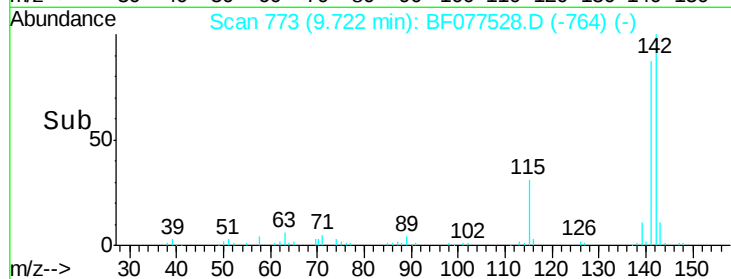
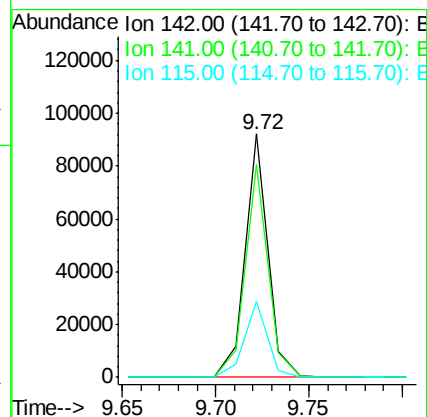
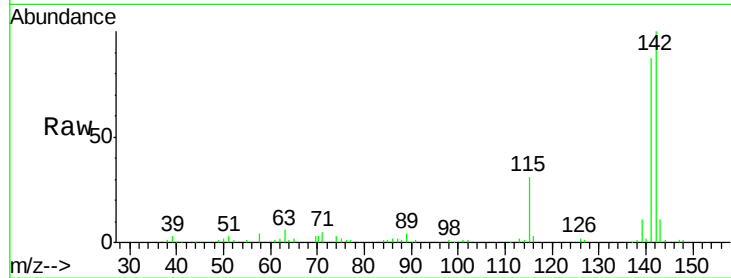
#37
2-Methylnaphthalene
Concen: 5.17 ng
RT: 9.72 min Scan# 773
Delta R.T. 0.00 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Instrument :
BNA_F
ClientSampleId :
SB9

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.7	106.1
115	30.9	24.2	36.4

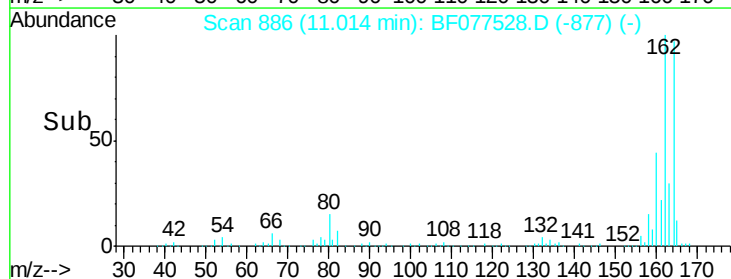
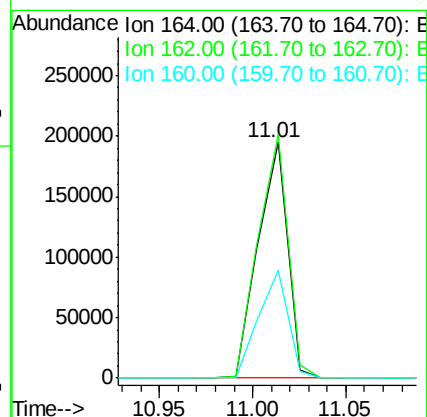
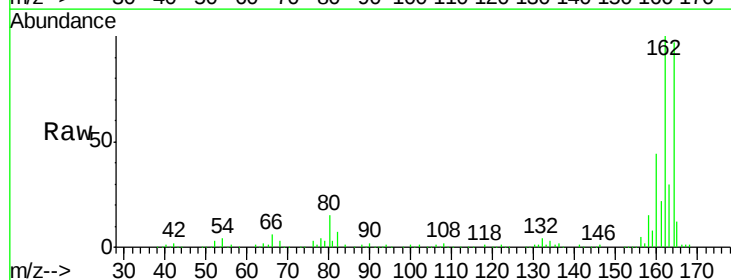
Manual Integrations
APPROVED

apatel
3/3/2015 6:26:33 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 11.01 min Scan# 886
Delta R.T. 0.00 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	83.2	124.8
160	45.9	34.6	52.0





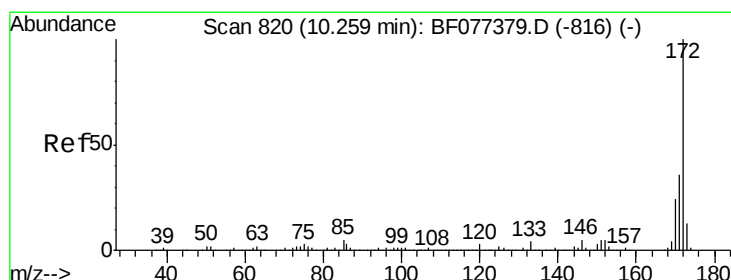
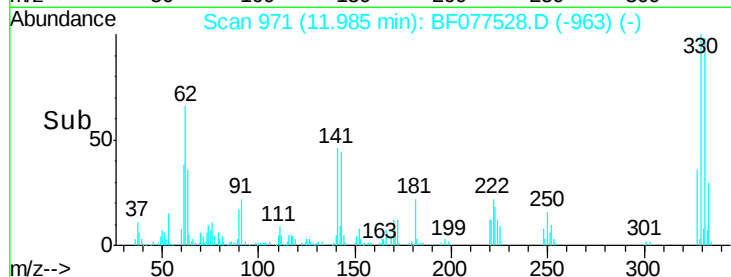
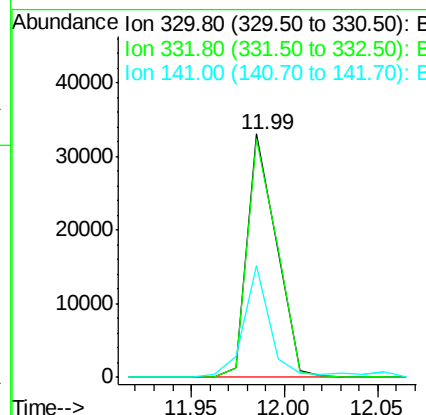
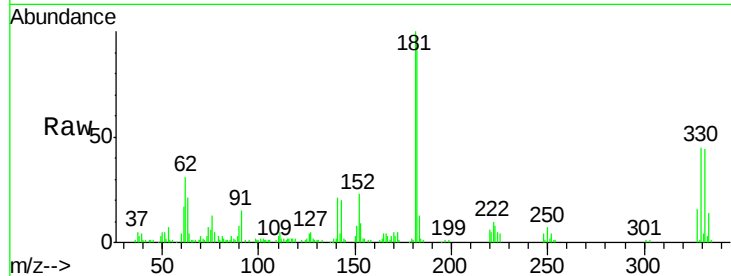
#41
 2,4,6-Tribromophenol
 Concen: 17.73 ng
 RT: 11.99 min Scan# 971
 Delta R.T. 0.00 min
 Lab File: BF077528.D
 Acq: 2 Mar 2015 17:59

Instrument :
 BNA_F
 ClientSampled :
 SB9

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	36152		
332	98.9	77.4	116.2	
141	41.4	28.8	43.2	

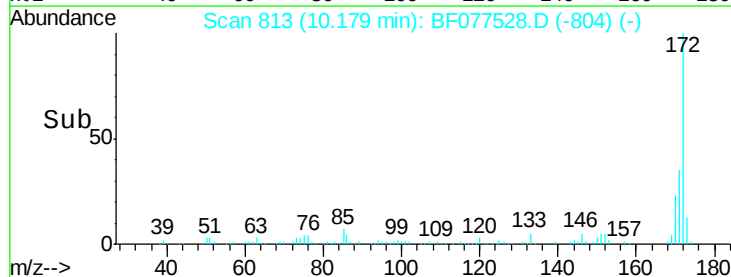
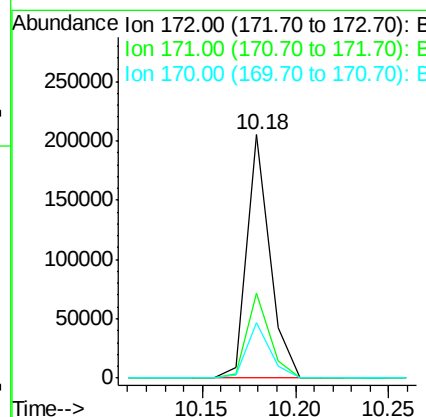
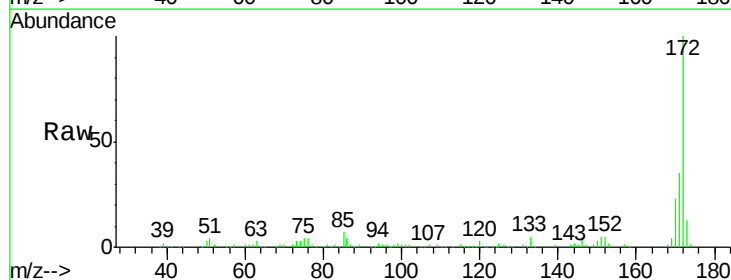
Manual Integrations
 APPROVED

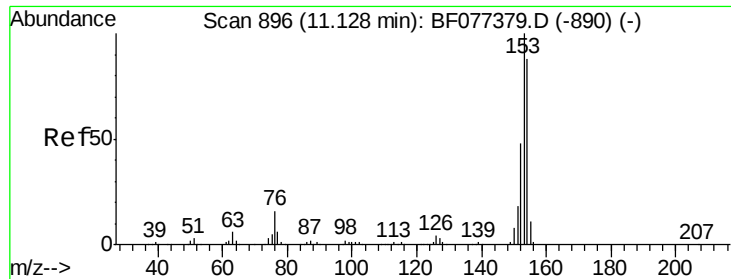
apatel
 3/3/2015 6:26:33 PM



#44
 2-Fluorobiphenyl
 Concen: 12.99 ng
 RT: 10.18 min Scan# 813
 Delta R.T. 0.00 min
 Lab File: BF077528.D
 Acq: 2 Mar 2015 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	176416		
171	34.9	28.9	43.3	
170	22.7	19.4	29.2	





#51

Acenaphthene

Concen: 39.90 ng

RT: 11.05 min Scan# 889

Delta R.T. 0.00 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

Instrument :

BNA_F

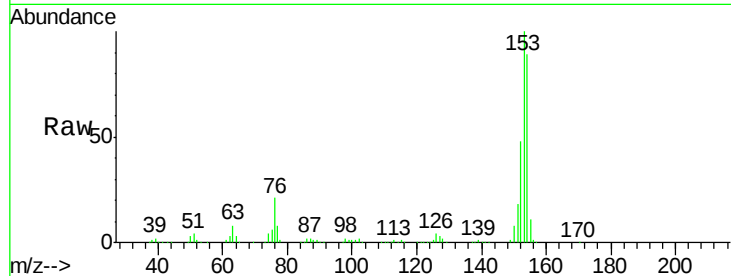
ClientSampleId :

SB9

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	474211		
153	112.8	90.5	135.7	
152	54.0	43.5	65.3	

Manual Integrations
APPROVED

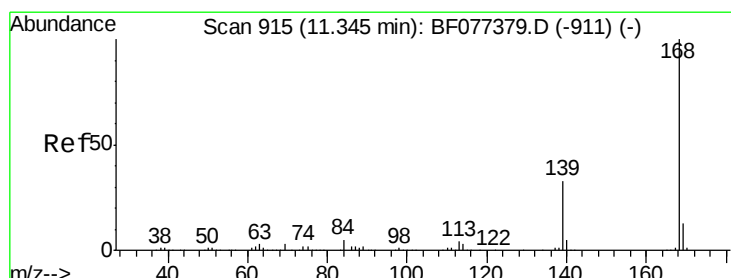
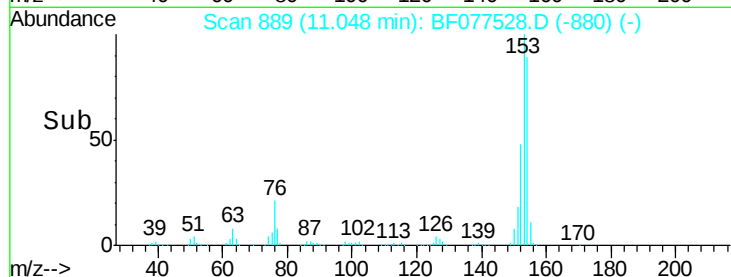
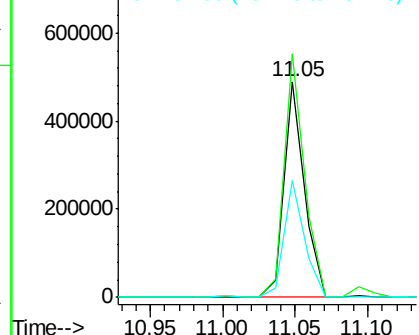
apatel
3/3/2015 6:26:33 PM



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 17.93 ng

RT: 11.26 min Scan# 908

Delta R.T. 0.00 min

Lab File: BF077528.D

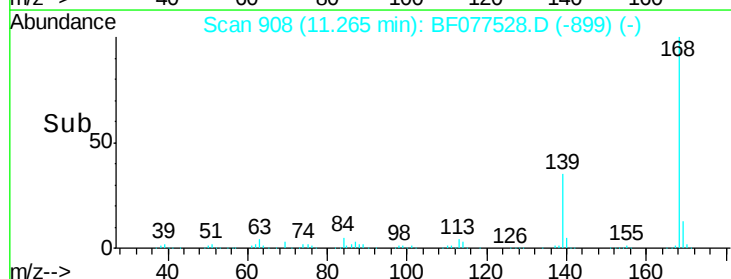
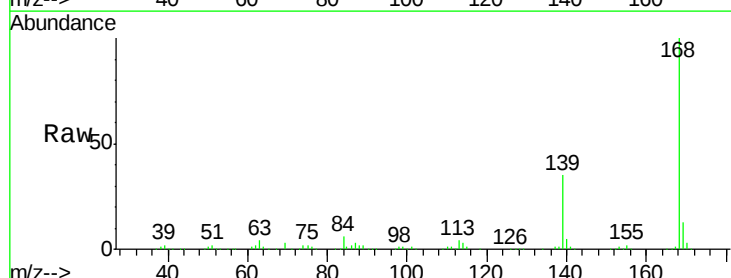
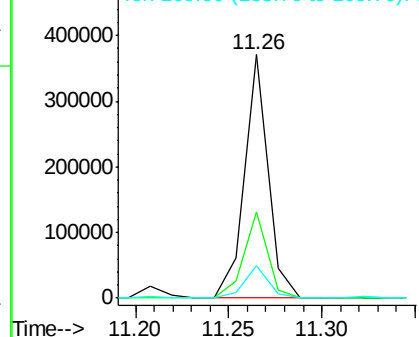
Acq: 2 Mar 2015 17:59

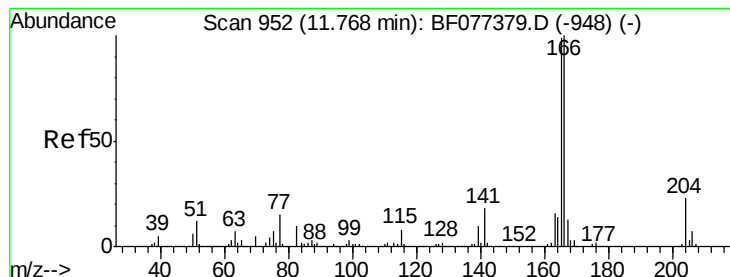
Tgt Ion	Ratio	Resp	Lower	Upper
168	100	329005		
139	35.3	29.3	43.9	
169	13.4	10.9	16.3	

Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 35.45 ng

RT: 11.69 min Scan# 945

Delta R.T. 0.00 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

Instrument :

BNA_F

ClientSampleId :

SB9

Tgt Ion:166 Resp: 520090

Ion Ratio Lower Upper

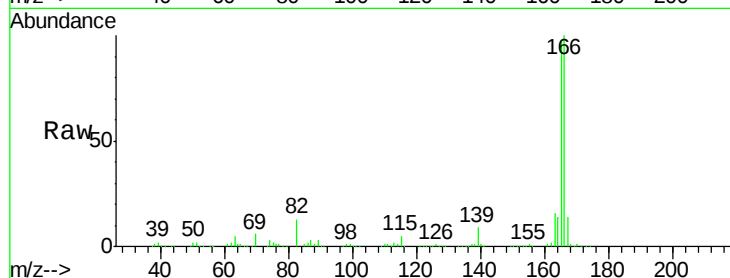
166 100

165 96.9 77.6 116.4

167 14.4 10.6 16.0

Manual Integrations
APPROVED

apatel
3/3/2015 6:26:33 PM



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

600000

500000

400000

300000

200000

100000

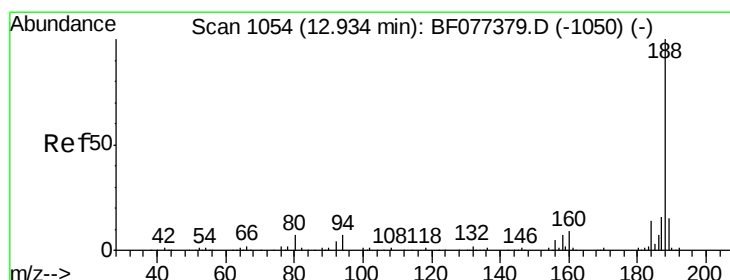
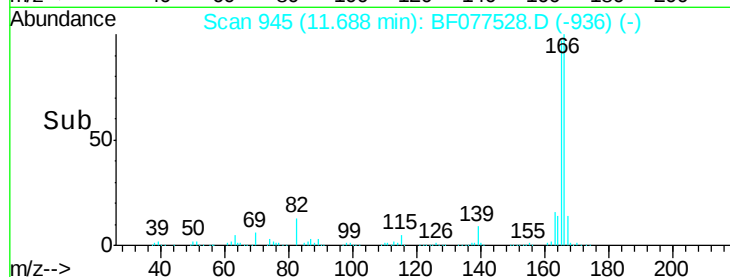
0

11.69

11.60

11.70

Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.86 min Scan# 1047

Delta R.T. 0.01 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

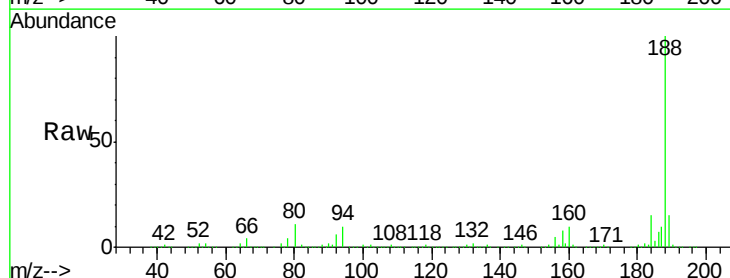
Tgt Ion:188 Resp: 408971

Ion Ratio Lower Upper

188 100

94 10.4 7.4 11.2

80 11.4 8.0 12.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

400000

300000

200000

100000

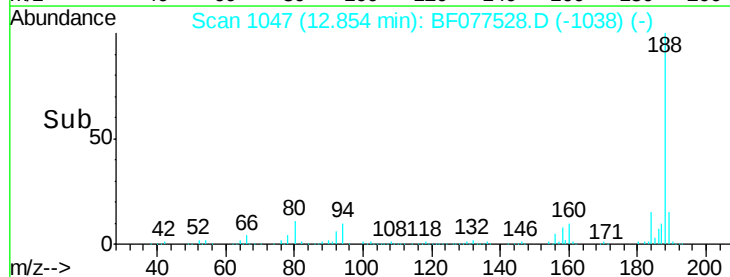
0

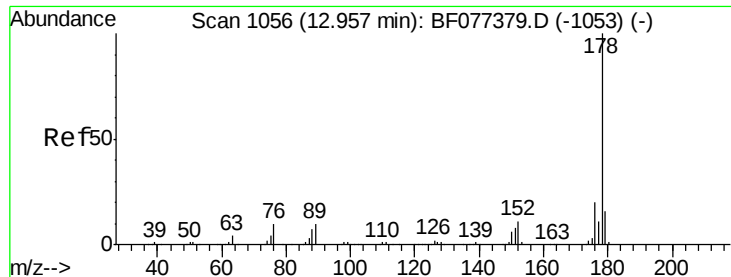
12.86

12.80

12.90

Time-->





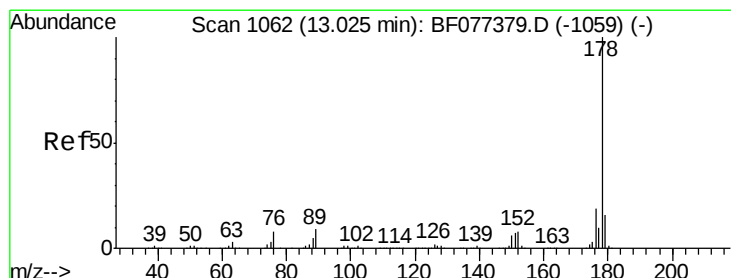
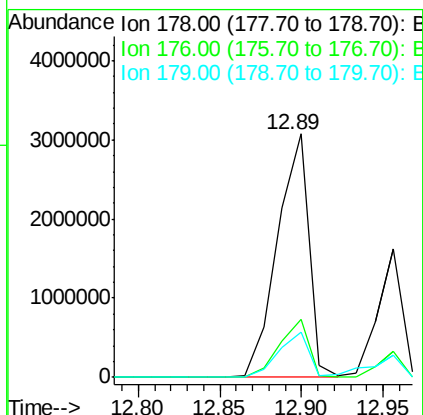
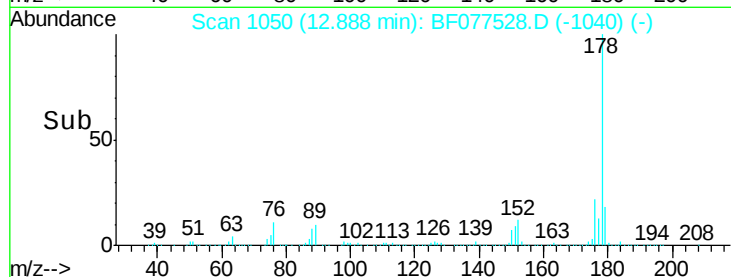
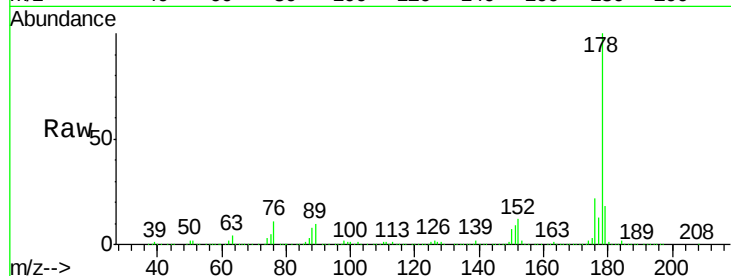
#70
Phenanthrene
Concen: 174.74 ng
RT: 12.89 min Scan# 1050
Delta R.T. 0.01 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Instrument :
BNA_F
ClientSampleId :
SB9

Tgt Ion:178 Resp: 4142021
Ion Ratio Lower Upper
178 100
176 21.5 15.5 23.3
179 17.7 12.2 18.2

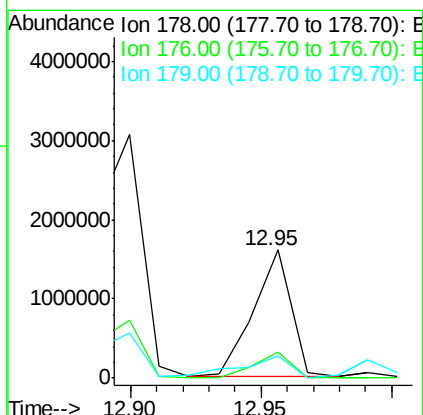
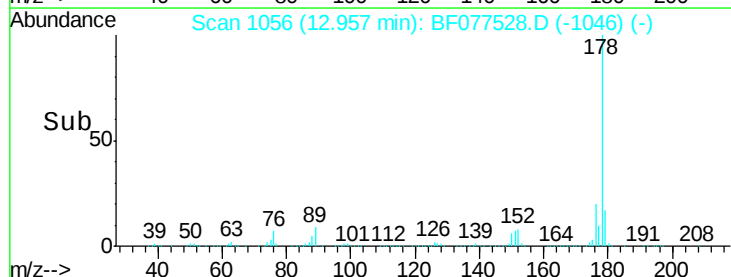
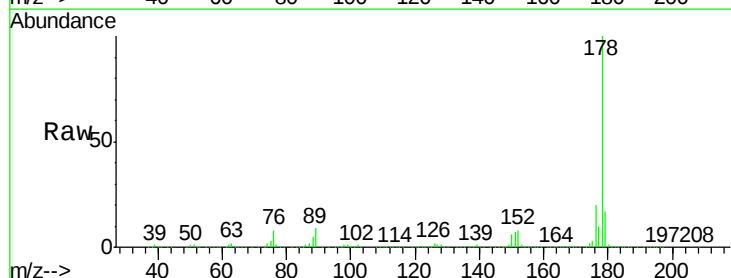
Manual Integrations
APPROVED

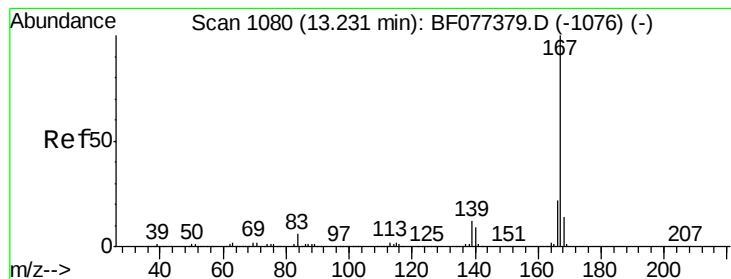
apatel
3/3/2015 6:26:33 PM



#71
Anthracene
Concen: 69.74 ng
RT: 12.95 min Scan# 1056
Delta R.T. 0.01 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Tgt Ion:178 Resp: 1640472
Ion Ratio Lower Upper
178 100
176 20.2 15.4 23.0
179 16.9 12.9 19.3





#72

Carbazole

Concen: 43.70 ng

RT: 13.15 min Scan# 1073

Delta R.T. 0.01 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

Instrument :

BNA_F

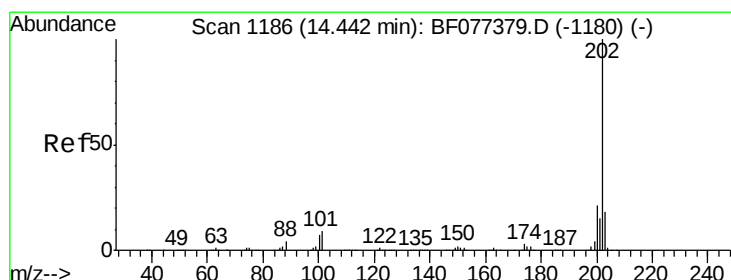
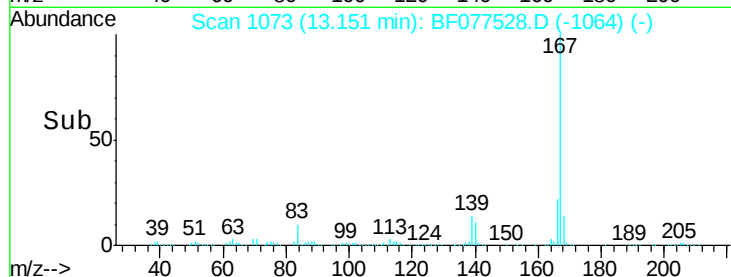
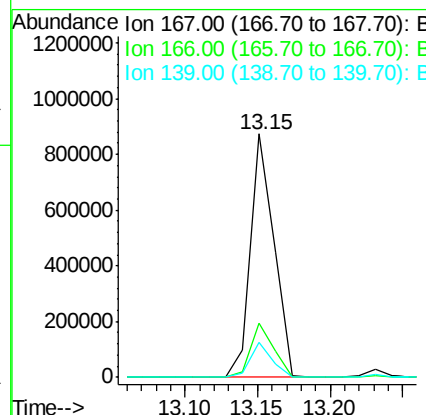
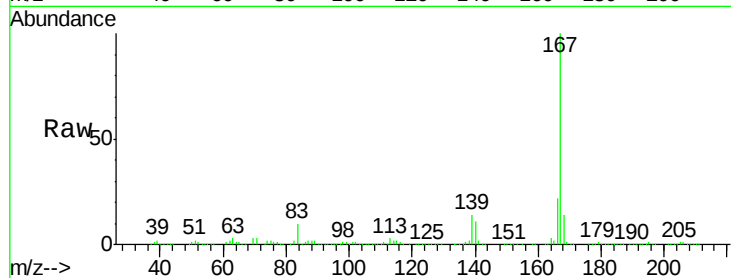
ClientSampled :

SB9

Tgt Ion:	167	Resp:	977414
Ion Ratio		Lower	Upper
167	100		
166	22.5	17.6	26.4
139	14.1	9.9	14.9

Manual Integrations
APPROVED

apatel
3/3/2015 6:26:33 PM



#74

Fluoranthene

Concen: 319.03 ng

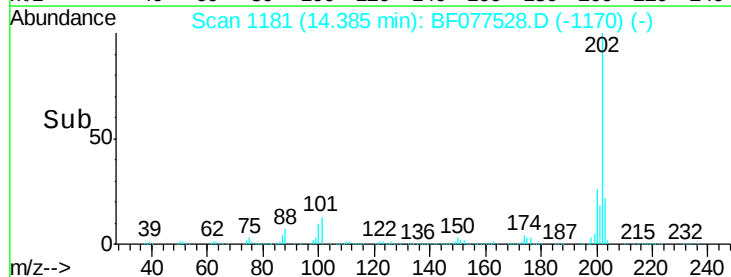
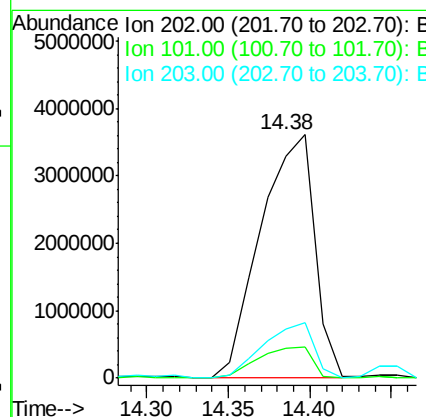
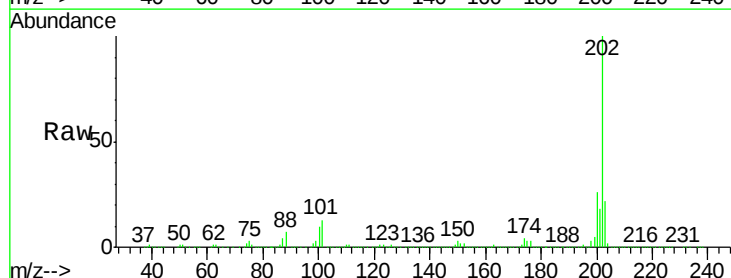
RT: 14.38 min Scan# 1181

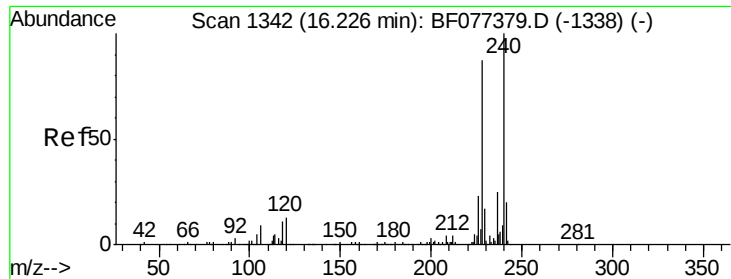
Delta R.T. 0.03 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

Tgt Ion:	202	Resp:	8260595
Ion Ratio		Lower	Upper
202	100		
101	13.4	0.0	30.8
203	22.1	0.0	37.7





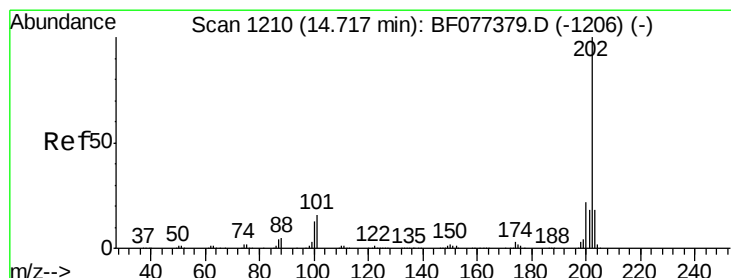
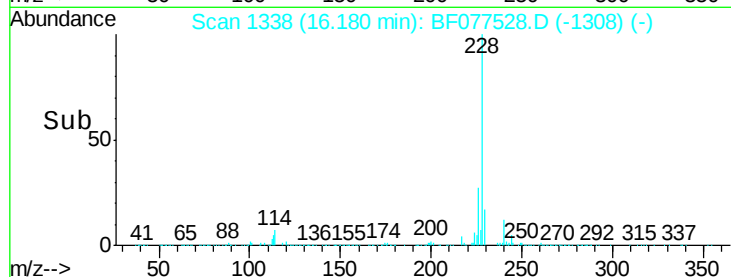
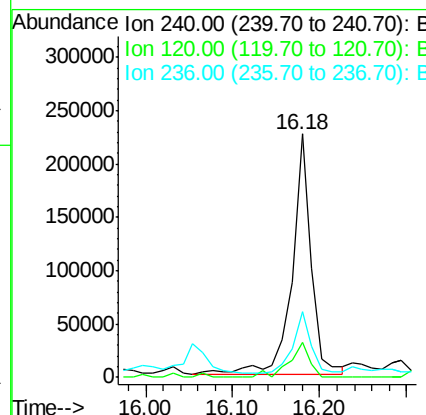
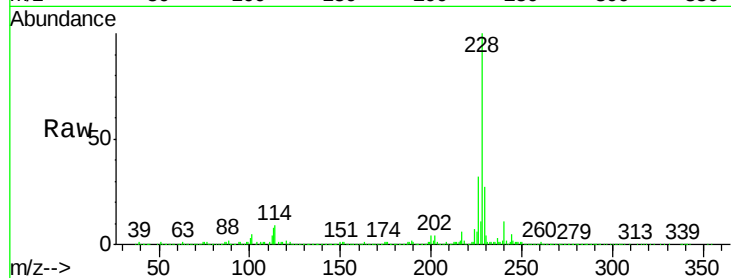
#75
Chrysene-d12
Concen: 20.00 ng
RT: 16.18 min Scan# 1338
Delta R.T. 0.04 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Instrument :
BNA_F
ClientSampleId :
SB9

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.3	8.8	13.2#
236	27.0	20.7	31.1

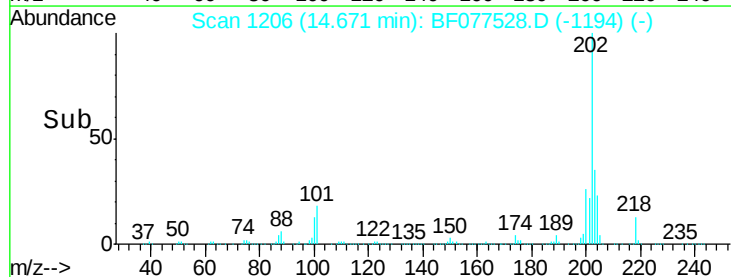
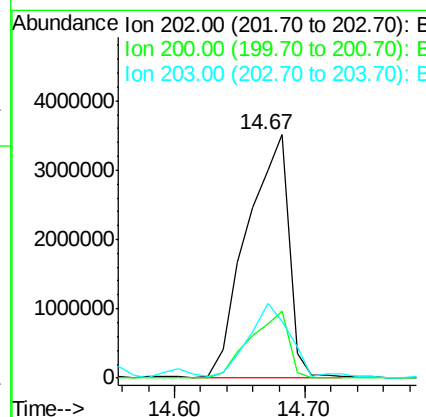
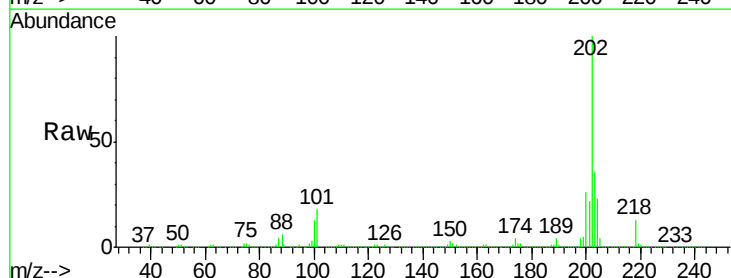
Manual Integrations
APPROVED

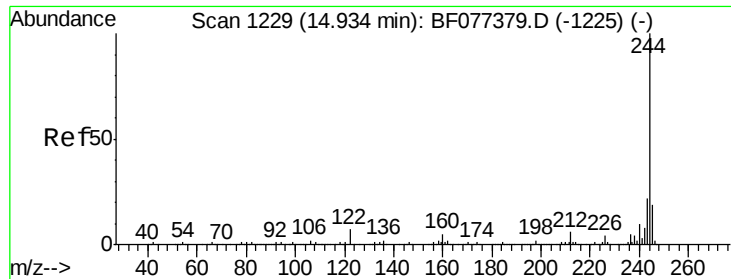
apatel
3/3/2015 6:26:33 PM



#77
Pyrene
Concen: 368.17 ng
RT: 14.67 min Scan# 1206
Delta R.T. 0.03 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Tgt Ion	Ratio	Lower	Upper
202	100		
200	26.4	17.1	25.7#
203	36.3	14.2	21.2#





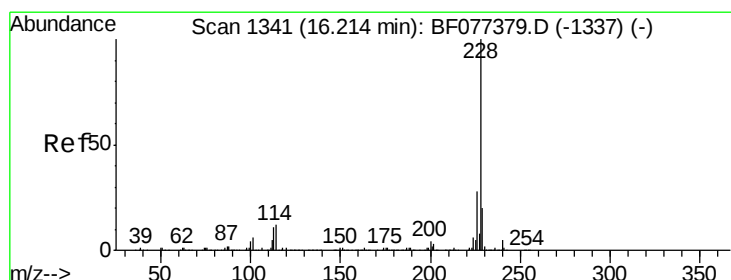
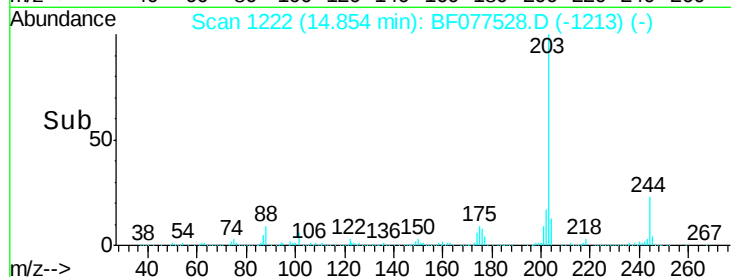
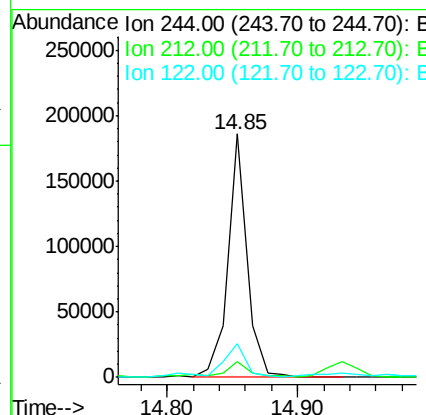
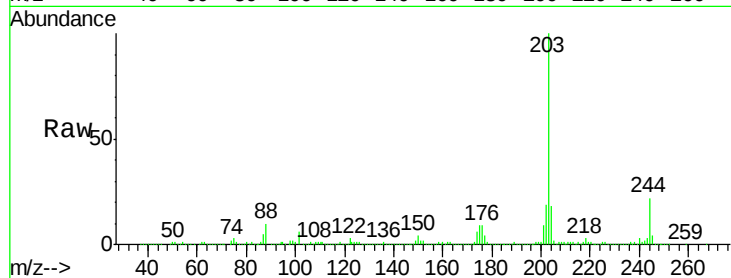
#78
 Terphenyl-d14
 Concen: 12.59 ng
 RT: 14.85 min Scan# 1222
 Delta R.T. 0.01 min
 Lab File: BF077528.D
 Acq: 2 Mar 2015 17:59

Instrument :
 BNA_F
 ClientSampled :
 SB9

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.6	5.2	7.8
122	14.1	7.8	11.8#

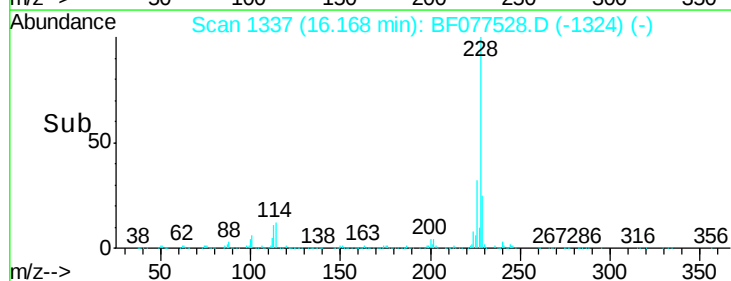
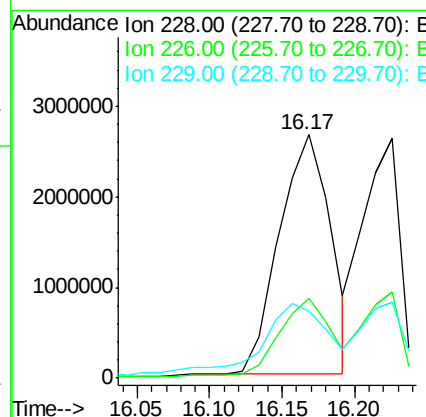
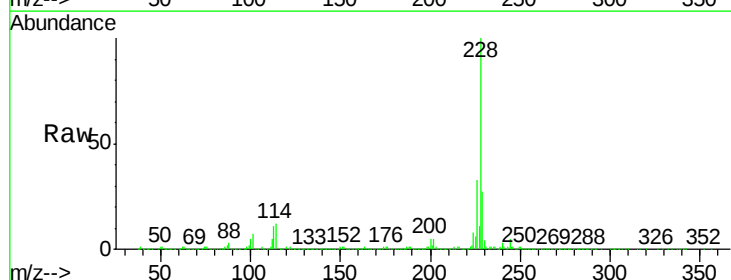
Manual Integrations
 APPROVED

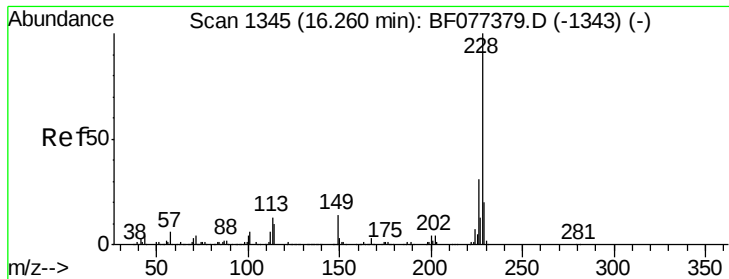
apatel
 3/3/2015 6:26:33 PM



#80
 Benzo(a)anthracene
 Concen: 316.46 ng
 RT: 16.17 min Scan# 1337
 Delta R.T. 0.04 min
 Lab File: BF077528.D
 Acq: 2 Mar 2015 17:59

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	32.9	22.0	33.0
229	27.4	15.8	23.8#





#82

Chrysene

Concen: 235.19 ng

RT: 16.21 min Scan# 1341

Delta R.T. 0.05 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

Instrument :

BNA_F

ClientSampleId :

SB9

Tgt Ion:228 Resp: 4496362

Ion Ratio Lower Upper

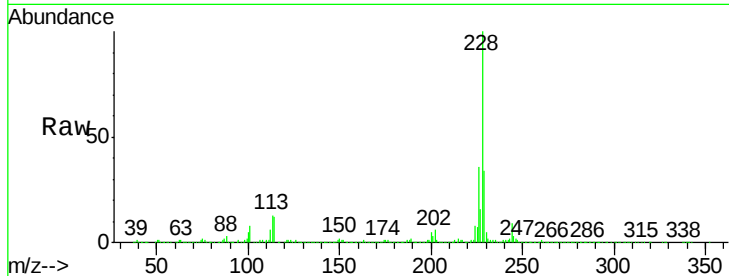
228 100

226 35.6 24.9 37.3

229 33.7 16.4 24.6#

Manual Integrations
APPROVED

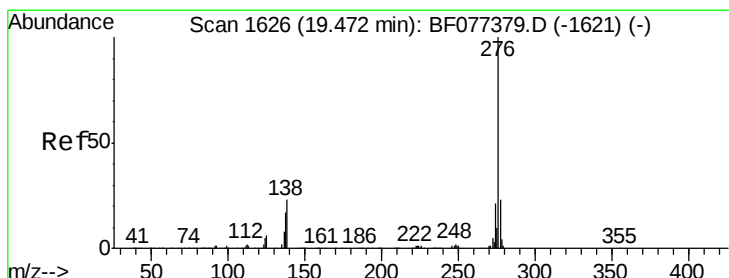
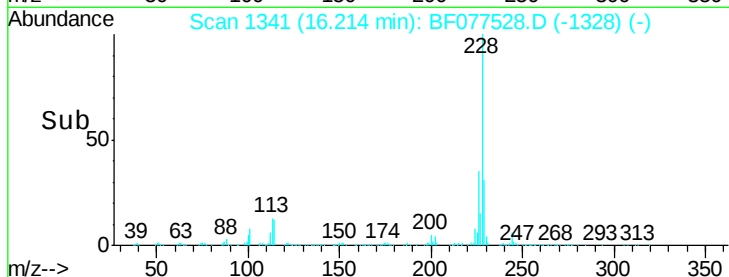
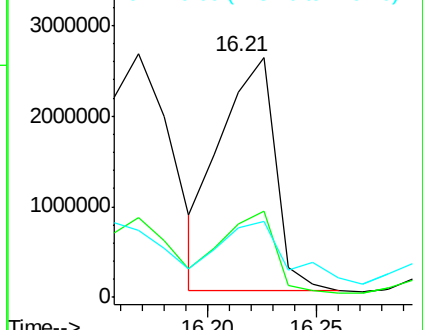
apatel
3/3/2015 6:26:33 PM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 125.08 ng m

RT: 19.43 min Scan# 1622

Delta R.T. 0.15 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

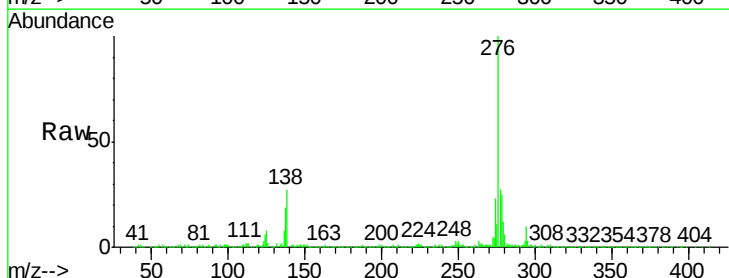
Tgt Ion:276 Resp: 2726568

Ion Ratio Lower Upper

276 100

138 0.0 21.2 31.8#

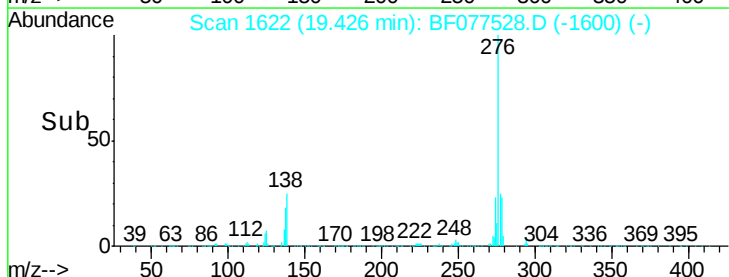
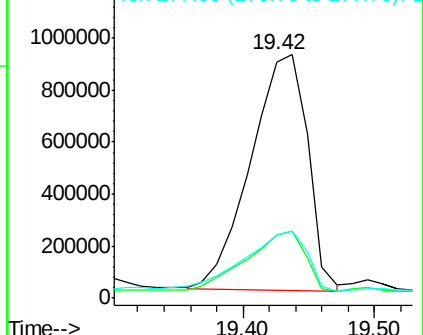
277 0.0 20.0 30.0#

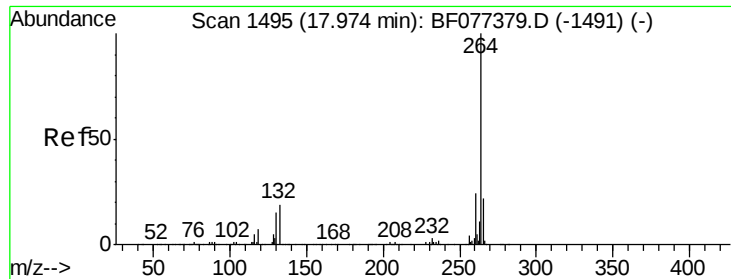


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.94 min Scan# 1492

Delta R.T. 0.11 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

Instrument :

BNA_F

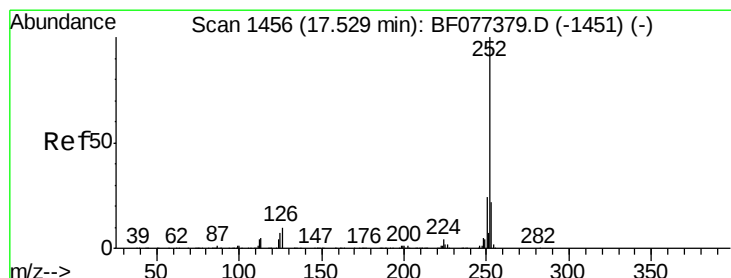
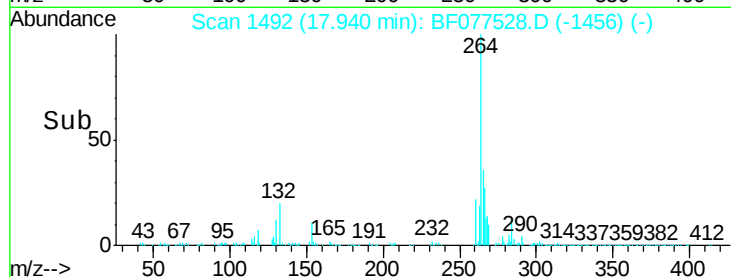
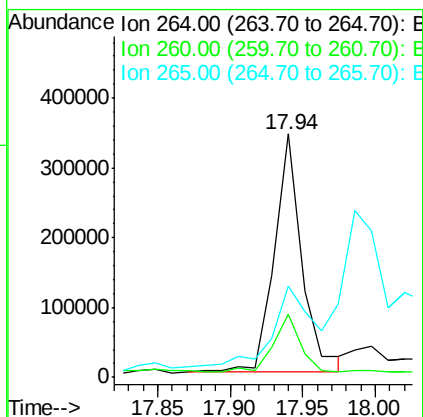
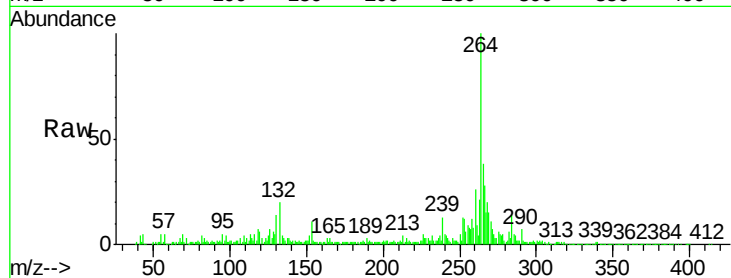
ClientSampleId :

SB9

Tgt Ion:	264	Resp:	454176
Ion Ratio		Lower	Upper
264	100		
260	25.9	19.3	28.9
265	37.6	16.8	25.2#

Manual Integrations
APPROVED

apatel
3/3/2015 6:26:33 PM



#87

Benzo(b)fluoranthene

Concen: 244.03 ng m

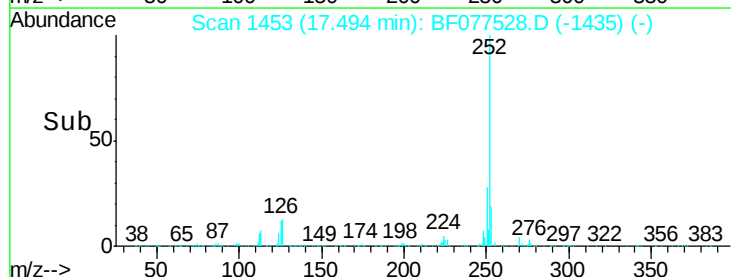
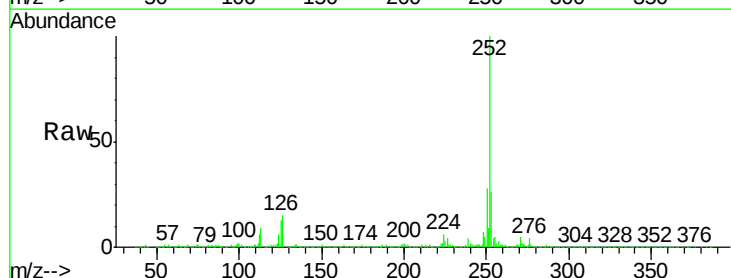
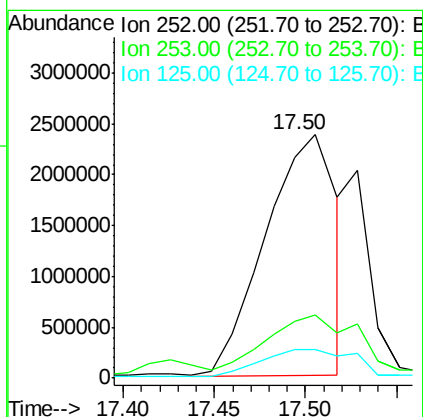
RT: 17.49 min Scan# 1453

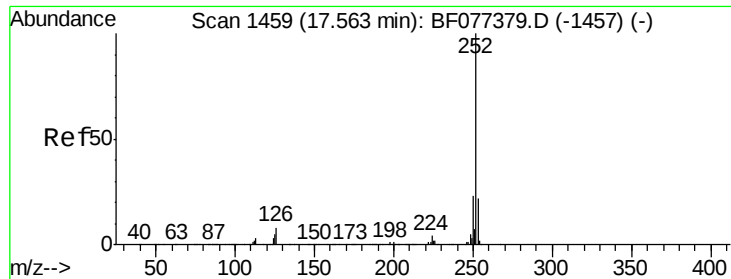
Delta R.T. 0.10 min

Lab File: BF077528.D

Acq: 2 Mar 2015 17:59

Tgt Ion:	252	Resp:	6445120
Ion Ratio		Lower	Upper
252	100		
253	25.7	17.6	26.4
125	12.8	5.4	8.2#





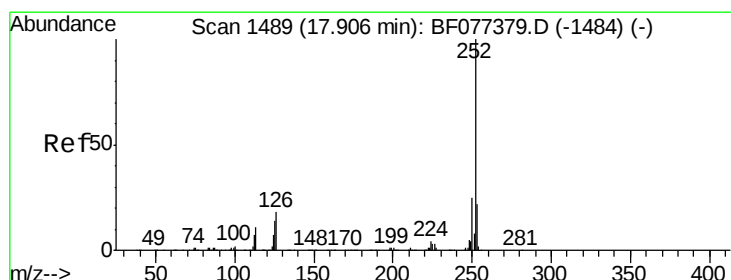
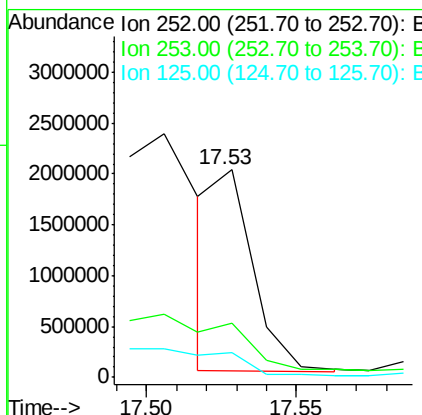
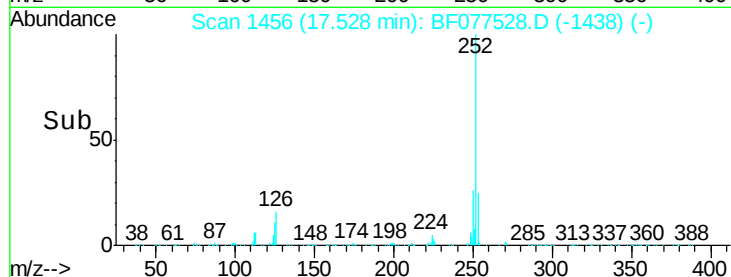
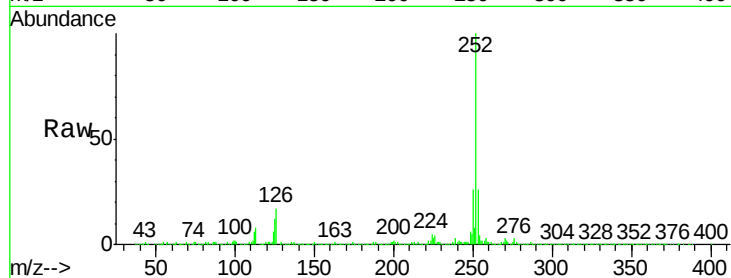
#88
Benzo(k)fluoranthene
Concen: 65.50 ng m
RT: 17.53 min Scan# 1456
Delta R.T. 0.10 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Instrument :
BNA_F
ClientSampleId :
SB9

Tgt Ion:252 Resp: 1695196
Ion Ratio Lower Upper
252 100
253 26.2 18.1 27.1
125 11.7 10.1 15.1

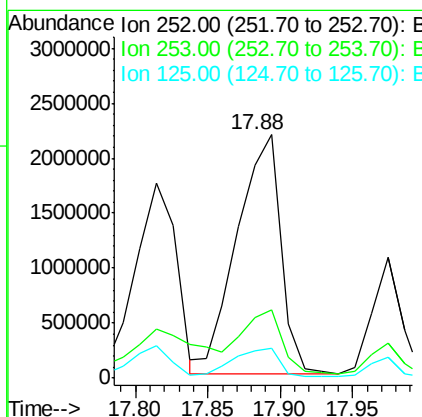
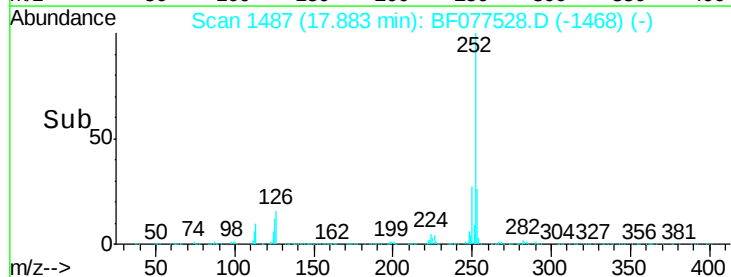
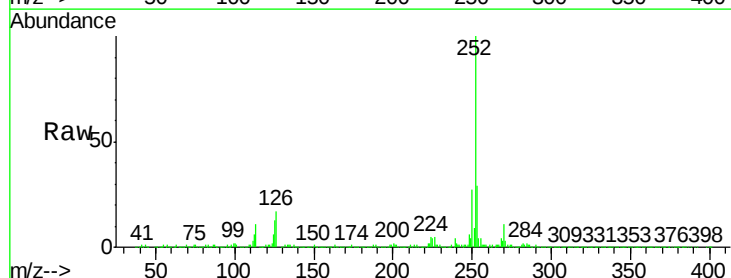
Manual Integrations
APPROVED

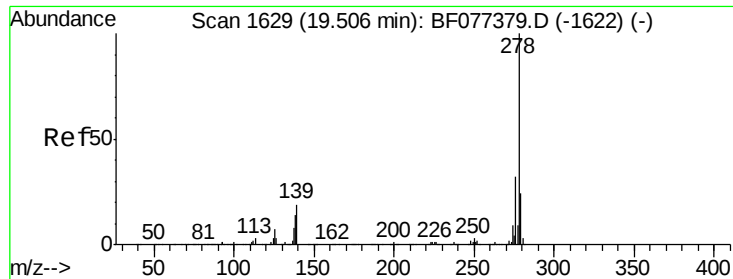
apatel
3/3/2015 6:26:33 PM



#89
Benzo(a)pyrene
Concen: 181.98 ng m
RT: 17.88 min Scan# 1487
Delta R.T. 0.12 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Tgt Ion:252 Resp: 4577342
Ion Ratio Lower Upper
252 100
253 28.6 18.2 27.2#
125 12.6 8.3 12.5#





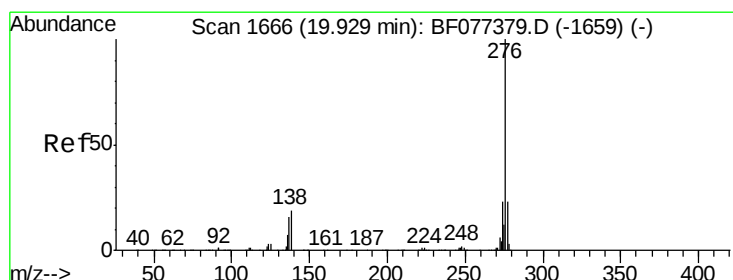
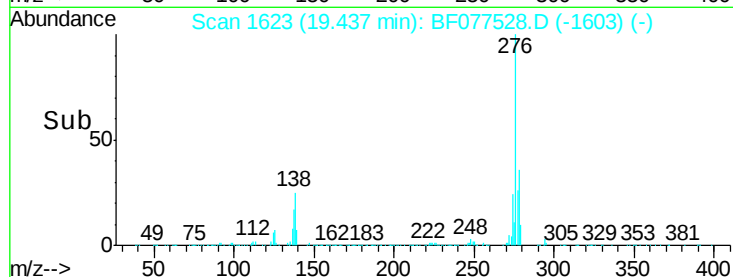
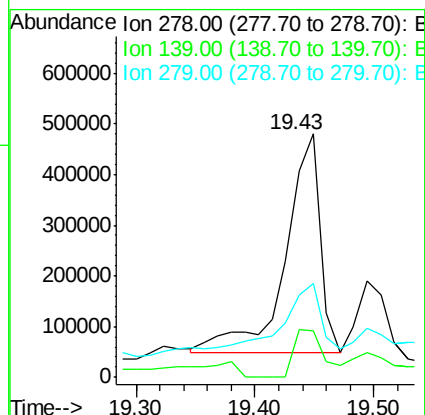
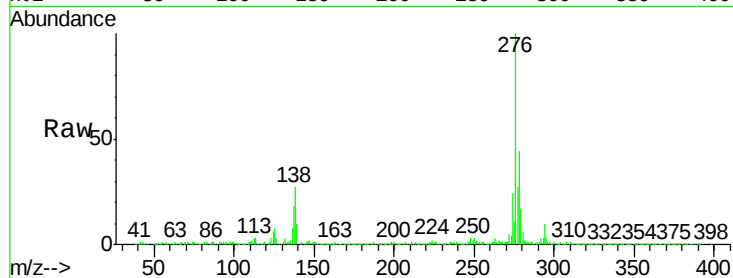
#90
Dibenzo(a,h)anthracene
Concen: 36.45 ng
RT: 19.43 min Scan# 1623
Delta R.T. 0.13 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Instrument :
BNA_F
ClientSampleId :
SB9

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.2	14.3	21.5#
279	39.9	19.0	28.6#

Manual Integrations
APPROVED

apatel
3/3/2015 6:26:33 PM



#91
Benzo(g,h,i)perylene
Concen: 107.57 ng m
RT: 19.87 min Scan# 1661
Delta R.T. 0.17 min
Lab File: BF077528.D
Acq: 2 Mar 2015 17:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.4	18.9	28.3
138	26.3	20.5	30.7

